International application No.

US 5564462 A (STORCH) 15 October 1996 A See the whole document US 5452740 A (BOWMAN) 26 September 1995 A See the whole document US 5339859 A (BOWMAN) 23 August 1994 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document "I = 10, 11 - 15, W Further documents are listed in the continuation of Box C "Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance: document defining the general state of the art which is not considered to be of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document such document special reason (as specified) document relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone document of particular relevance; the claimed invention cannot be considered to involve		:		PCT/AU2004/000415	
According to International Patent Classification (PC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (elassification system followed by classification symbols) Refer Electronic Database consulted below Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched US CLASS 137/337 Electronic data hase consulted during the international search (name of data base and, where practicable, search terms used) Derwent World Patent Index: E03C-001/02 AND keywords (HOT+ OR HEAT+), (CIRCULAT+ OR RECIRCU OR RE-CIRCULAT+) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant No See the whole document US 5564462 A (STORCH) 15 October 1996 A See the whole document US 5452740 A (BOWMAN) 26 September 1995 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document "E" artical attagories of cited document: "L" document defining the general state of the art which is not considered to be of particular relevance in the international fling date or priority date or another caided or other means "E" active application or patent but published on or after the international fling date or or back in settled in the document secundary supplies the or the settle or the international fling date or or other means "E" document which may drow doubts on priority claim(or or which is cited to establish the publication date of another claimon or other special resson (a specified) "C" document referring to an ord disclosure, use, established or other means "B" document referring to an ord disclosure, use, established or other means "B" document referring to an ord disclosure, use, established or other means "B" document referring to an ord disclosure, use, established or confidence to the comment of the consideration of the means of the surface	C	CLASSIFICATION OF SUBJECT MATTER			
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Minimum documentation searched (classification system followed by classification symbols) Refer Electronic Database consulted below Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched US CLASS 137/337 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Derwent World Patent Index: E03C-001/02 AND keywords (HOT+ OR HEAT+), (CIRCULAT+ OR RECIRCULOR RE-CIRCULAT+) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant 1 No US 5564462 A (STORCH) 15 October 1996 A See the whole document US 5452740 A (BOWMAN) 26 September 1995 1 - 10, 11 - 15, US 5339859 A (BOWMAN) 23 August 1994 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document *US 3799181 A (MADDREN) 26 March 1974 A See the whole document *Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered in the international filing date or priority date or cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of the means """ **Adocument published prior to the international filing date or priority date or cannot be considered to be of means """ **Adocument published prior to the international filing date or priority date or cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of the means **Abocument published prior to the international filing date or priority date or cannot be considered to be understand the principle or theory underlying the in	ording to In	ternational Patent Classification (IPC) or to both n	ational classification and IPC	·	•
Refer Electronic Database consulted below Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched US CLASS 137/337 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Derwent World Patent Index: E03C-001/02 AND keywords (HOT+ OR HEAT+), (CIRCULAT+ OR RECIRCULAT+) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant in No. A US 5564462 A (STORCH) 15 October 1996 A US 5564462 A (STORCH) 15 October 1996 A US 5452740 A (BOWMAN) 26 September 1995 A See the whole document US 5339859 A (BOWMAN) 23 August 1994 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document **Us 3799181 A (MADDREN) 26 March 1974 A See the whole document **I later document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date or vincible or vincible international filing date or vincible or vincible international filing date or vincible or character which may throw doubts on priority elainf(s) or which is cited to establish the publication date of the consideration or vincible international filing date or vincible and complete international filing date or vincible and comment region or which is cited to establish the publication date of the consideration or cannot be considered to involve an inventive step when the document is combined with one or more such document published after the international filing date or more cannot be considered to involve an inventive step when the document is combined with one or more such document published after the international the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is combined with one or more such document published after the internati	F	TELDS SEARCHED			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched US CLASS 137/337 Electronic data hase consulted during the international search (name of data base and, where practicable, search terms used) Derwent World Patent Index: E03C-001/02 AND keywords (HOT+ OR HEAT+), (CIRCULAT+ OR RECIRCULAT+) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category*. Citation of document, with indication, where appropriate, of the relevant passages Relevant No A US 5564462 A (STORCH) 15 October 1996 A US 5564462 A (STORCH) 15 October 1996 A US 5452740 A (BOWMAN) 26 September 1995 A US 5339859 A (BOWMAN) 23 August 1994 A See the whole document US 3799181 A (MADDREN) 26 March 1974 A See the whole document **US 3799181 A (MADDREN) 26 March 1974 A See the whole document **US Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of paticular relevance to candidated to be of paticular relevance "E" earlier application or patent but published on or after the international filing date "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another leating or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication and ten or another leating or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another leating or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another leating or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another leating or other means "T" document which may throw doubts on priority claim(s) or which is cited to establish the publication dat			ssification symbols)	· · · · · · · · · · · · · · · · · · ·	
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AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 C. NGUYEN-KIM Telephone No: (02) 6283 2121	AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au C. NGUYEN-			21	:

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim				
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	US 5671771 A (BRANDEL) 30 September 1997	1 – 10, 16,		
A	See the whole document	11 – 15, 17 –1		
	US 5622203 A (GIVLER et al) 22 April 1997	1-10, 16,		
A	See the whole document	11 - 15, 17 -1		
•	US 4697614 A (POWERS et al) 6 October 1987	1 – 10, 16,		
A	See the whole document	11 – 15, 17 –1		
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International application No.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos.:	
because they relate to subject matter not required to be searched by this Authority, namely:	
2. Claims Nos.:	
because they relate to parts of the international application that do not comply with the prescribed requirements to an extent that no meaningful international search can be carried out, specifically:	such
	•
3. Claims Nos.:	
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	5.4(a)
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
See the Supplemental Box	
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this international search reproductive covers only those claims for which fees were paid, specifically claims Nos.:	ort
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No required additional search fees were timely paid by the applicant. Consequently, this international search report restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	rt is
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Remark on Protest	
No protest accompanied the payment of additional search fees.	

International application No.

PCT/AU2004/000415

Sup	plemen	tal	Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Independent claims 1, 2, 16 are directed to a valve assembly in which a hot water valve means is opened or closed in response to a predetermined water temperature entering the valve assembly housing; and two cold water valve means are opened or closed in response to a predetermined water temperature entering the valve assembly housing and to a predetermined drop / increase in pressure at the hot water outlet.
- 2. Independent claims 11, 12, 14, 15, 17 19 are directed to a water recovery / reticulation system and a method thereof in which, upon opening the hot water outlet tap, the hot water that has been cooled down is diverted by a mechanical actuated diverter valve to a cold water storage means until the water flowing through the diverter valve reaches a predetermined temperature; the cooled down water collected in the cold water storage means is sucked or pumped to a cold water supply / delivery pipe.

Information on patent family members

International application No.

PCT/AU2004/000415

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		·		
US	5564462			
US	5452740	US	5339859	
US	3799181			
US	5671771			·
US	5622203			
US	4697614			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX